

4/12/06

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10822357
Filing Date	2004-04-12
First Named Inventor	CRANE, et al.
Art Unit	3744
Examiner Name	JIANG
Attorney Docket Number	20712-0089

U.S. PATENTS						<input type="button" value="Remove"/>
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
CJ	1	4877388		1989-10-31	Inaba et al.	
	2	5235504		1993-08-10	Sood	
	3	5894736		1999-04-20	Beaverson et al.	
	4	2442021		1948-05-04	Rose	
	5	3390320		1968-06-25	Kammiller et al.	
	6	3621365		1971-11-16	Beck et al.	
	7	5896021		1999-04-20	Kumar	
↓	8	6579067	B1	2003-06-17	Holden	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10822357
Filing Date	2004-04-12
First Named Inventor	CRANE, et al.
Art Unit	3744
Examiner Name	JIANG
Attorney Docket Number	20712-0089

9	6459606	B1	2002-10-01	Jadric	
10	6459596	B1	2002-10-01	Corzine	
11	6434960	B1	2002-08-20	Rousseau	
12	6408645	B1	2002-06-25	Tsuboe et al.	
13	6370888	B1	2002-04-16	Grabon	
14	6325142	B1	2001-12-04	Bosley et al.	
15	6229722	B1	2001-05-08	Ichikawa et al.	
16	6499504	B2	2002-12-21	Wichert	
17	6124697		2000-09-26	Wilkerson	
18	6031738		2000-02-29	Lipo et al.	
19	6018957		2000-02-01	Katra et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10822357
Filing Date	2004-04-12
First Named Inventor	CRANE, et al.
Art Unit	3744
Examiner Name	JIANG
Attorney Docket Number	20712-0089

20	6008616	1999-12-28	Nagayama et al.
21	5845509	1998-12-08	Shaw et al.
22	5528114	1996-06-18	Tokizaki et al.
23	5503248	1996-04-02	Peruggi et al.
24	5509504	1996-04-23	McHugh et al.
25	5492273	1996-02-20	Shah
26	5446645	1995-08-29	Shirahama et al.
27	5350992	1994-09-27	Colter
28	5488279	1996-01-30	Kawamoto et al.
29	5010287	1991-04-23	Mukai et al.
30	4958118	1990-09-18	Pottebaum

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		Application Number	10822357
		Filing Date	2004-04-12
		First Named Inventor	CRANE, et al.
		Art Unit	3744
		Examiner Name	JIANG
		Attorney Docket Number	20712-0089

CS	31	4787211		1988-11-29	Shaw	
	32	4546423		1985-10-08	Seki	
	33	4502842		1985-03-05	Currier et al.	
	34	4151725		1979-05-01	Kountz et al.	
	35	4150425		1979-04-17	Nagano et al.	
	36	3909687		1975-09-30	Abbondanti	
	37	6659726	B2	2003-12-09	Holden	
	38	5735134		1998-04-07	Liu et al.	
	39	5586444		1996-12-24	Fung	
	40	5123256		1992-06-23	Oltman	
✓	41	4679404		1987-07-14	Alsenz	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Not for submission under 37 CFR 1.99)</small>		Application Number	10822357
		Filing Date	2004-04-12
		First Named Inventor	CRANE, et al.
		Art Unit	3744
		Examiner Name	JIANG
		Attorney Docket Number	20712-0089

	42	4633672	/	1987-01-06	Persem et al.	
---	----	---------	---	------------	---------------	--

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20030041605	A1	2003-03-06	Butcher et al.	
	2	20030037555	A1	2003-02-27	Street et al.	
	3	20040000155	A1	2004-01-01	Cline et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	1271067	EP	A	2003-01-02	Daikin Industries Ltd.		<input type="checkbox"/>
	2	1376842	EP	A1	2004-01-02	Fanuc Ltd.		<input type="checkbox"/>
	3	95/06973	WO		1995-03-09	ABB Industry OY		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(Not for submission under 37 CFR 1.99)</small>	Application Number	10822357
	Filing Date	2004-04-12
	First Named Inventor	CRANE, et al.
	Art Unit	3744
	Examiner Name	JIANG
	Attorney Docket Number	20712-0089

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1		<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	5/17/06
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/822,357
		Filing Date	April 12, 2004
		First Named Inventor	CRANE et al.
		Art Unit	3744
		Examiner Name	N/A
		Attorney Docket Number	20712-0089
Sheet	1	of	1

7/12/04

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
C, J	A	US-6,540,148 B1	04/01/2003	Salsbury et al.	
	B	US- 6,463,748 B1	10/15/2002	Benedict et al.	
	C	US- 6,233,954 B1	05/22/2001	Mehaffey et al.	
	D	US- 6,185,946 B1	02/13/2001	Hartman	
	E	US- 6,035,651	03/14/2000	Carey	
	F	US- 5,669,225	09/23/1997	Beaverson et al.	
	G	US- 5,343,384	08/30/1994	Fisher et al.	
	H	US- 4,947,655	08/14/1990	Shaw	
	I	US- 4,814,089	09/30/1986	Dorsey	
	J	US- 4,562,531	12/31/1985	Enterline et al.	
	K	US- 4,487,028	12/11/1984	Foye	
	L	US- 4,483,152	11/20/1984	Bitondo	
	M	US- 4,384,462	05/24/1983	Overman et al.	
	N	US- 4,210,957	07/01/1980	Spethmann	
↓	O	US- 4,152,902	05/08/1979	Lush	
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Signature	CT	Date Considered	5/17/06
-----------------------	----	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

10/17/05

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete If Known

Application Number	10/822,357
Filing Date	April 12, 2004
First Named Inventor	CRANE et al.
Art Unit	3744
Examiner Name	JIANG, Chen Wen
Attorney Docket Number	20712-0089

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
CJ	A	US- 2003/233837 A1	12/25/2003	LEE et al.	
	B	US- 6516622 B1	02/11/2003	WILSON et al.	
	C	US- 5797729 A	08/25/1998	RAFUSE, JR. et al.	
	D	US- 5231846 A	08/03/1993	GOSHAH et al.	
↓	E	US- 5131237 A	07/21/1992	VALBJORN et al.	
	F	US- 4876859 A	10/31/1989	KITAMOTO et al.	
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			
	N	US-			
	O	US-			
	P	US-			
	Q	US-			
	R	US-			
	S	US-			
	T	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
CJ	1	WO 03/073025 A1	09/04/2003	KYLMAEHERTSI OY et al.		
	2	EP 0543622 A2	05/26/1993	Sanyo Electric Co.		
	3	EP 0521551 A1	01/07/1993	ARNEG S.P.A.		
	4	EP 0412474 A2	02/13/1991	Linde Aktiengesellschaft		
↓	5	DE 3832037 A1	03/22/1990	Kiwan Industrie- Elektronik GMBH		

Examiner Signature

CJ

Date Considered

5/17/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.